INC FORM \$13 1-84) 0 CFR 30, 32, 33, 34, 5 and 40 APPLICATION F(U.S. NUCLEAR REGULATORY COMMISSI APPROVED BY O 3150.0120 Expires 5-31-87		
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FO OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED	R DETAILED INSTRUCTIONS FOR COMPLET 9 BELOW.	ING APPLICATION SEND TWO COPIES		
EDERAL AGENCIES FILE APPLICATIONS WITH:	IF YOU ARE LOCATED IN:			
U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS WASHINGTON, DC 20665	ILLINOIS, INDIANA, IOWA, MICHIGAN, MIN WISCONSIN, SEND APPLICATIONS TO:			
LL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE OCATED IN:	U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 799 ROOSEVELT ROAD GLEN ELLYN, IL 60137 ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TX 76011 ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS			
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			TO: U.S. NUCLEAR REGULATORY COMMISSI MATERIAL RADIATION PROTECTION SE 1450 MARIA LANE, SUITE 210 WALNUT CREEK, CA. 94636	ON, REGION V
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	ADDRESSIESI WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 6303 Collinsville Road, East St. Loui throughout the State of Illinois	s, Illinois and at tempor	ary job sites	
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PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

- 1. AUTHORITY: Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
- PRINCIPAL PURPOSE(S): The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
- 3. ROUTINE USES: The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal. State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
- 4. WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVID-ING INFORMATION: Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
- 5. SYSTEM MANAGER(S) AND ADDRESS: U.S. Nuclear Regulatory Commission Director, Division of Fuel Cycle and Material Safety Office of Nuclear Material Safety and Safeguards Washington, D.C. 20555

JAN 2 8 1985

NRC FORM 313

5. Radioactive Material

I. a. Cesium-137

b. Sealed source (Troxler Model No. A-102112)

c. No single source to exceed 8 millicuries

II. a. Americium-241

b. Sealed source (Troxler Model No. A-102451)

c. No single source to exceed 40 millicuries

6. Purpose

I. & II. to be used in Troxler Model 3400 Series surface moisture/density gauges

7. Individuals Responsible

James R. Spagna, P.E. - Radiation Safety Officer Timothy E. Docter - President

-Both individuals named have received formal training in Radiation Safety at a class conducted by Troxler Electronics Co.

-Both individuals named have six (6) years experince in the use of the instruments to be used.

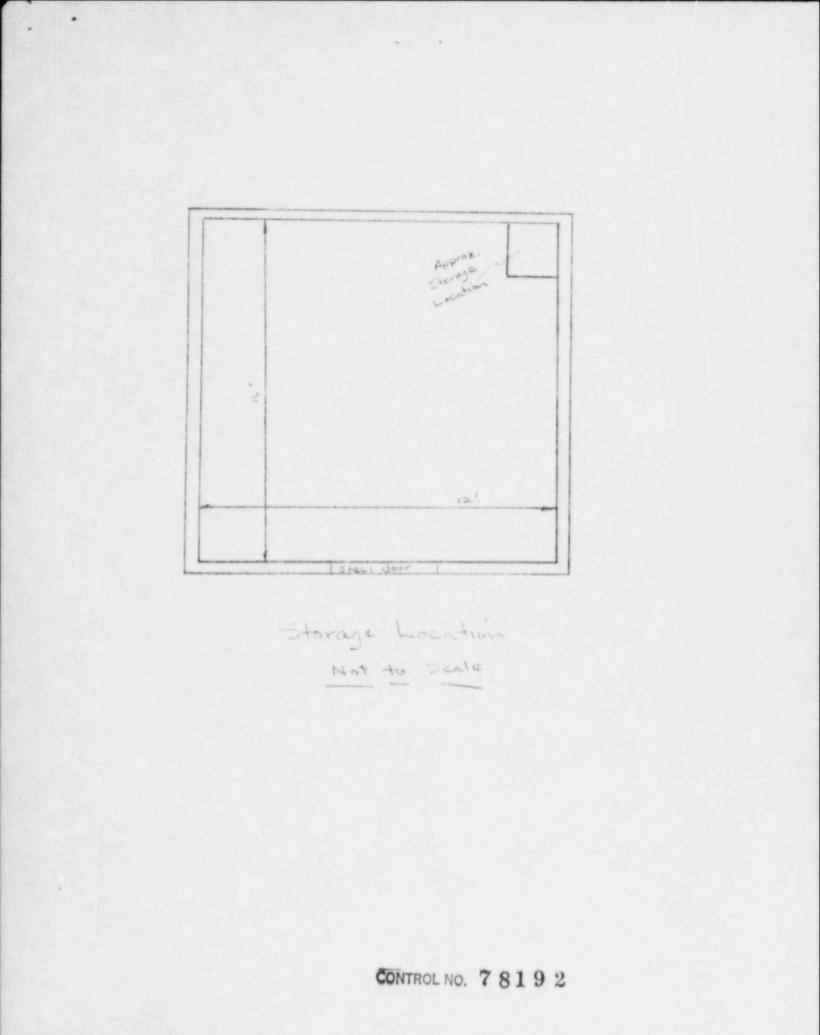
8. Training for individuals working in or frequenting restricted areas

No restricted areas will be necessary except in the limited useage of the storage area. Those who occasionally might find need to use this area will be instructed in the safety precautions necessary and will be reminded of the presence of the equipment with the appropriate warning signs.

9. Facilities and Equipment

The shielded source, contained in a Troxler Model 3411- Moisture/Density Gauge, will be stored at the offices of Maclair Asphalt Co., Inc., 6303 Collinsville Road, East St. Louis, Illinois 62201. The storage location will be in a locked vault located in the basement of that office as per the sketch below. The vault is constructed of 10 inch reinforced concrete walls, floor, and ceiling. The door is made of 6 inch steel. The gauge will be placed in a corner of the vault and will be contained in a box made of 6 inch non-reinforced, precast concrete for added protection.

During transportation to the temporary job sites, the source is contained in a shielded plastic housing manufactured specificly for use with the gauge. The gauge will be placed in the plastic carrying case and placed in a remote portion of the transporting vehicle where it will be secured to avoid being thrown about in the vehicle during transit.



10. Radiation Safety Program

The Radiation Safety Officer will be resposible for the safe storage, transportation and use of the Troxler Model 3411 Moisture/Dendity Gauge. He will see that all safety rules are followed, that all monitoring devices are properly employed and that all reports and notces are properly displayed. He will also see that proper handling and emergency procedures are followed.

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These procedures are as follows:

- (1)No person may transport or use the nuclear gauges unless the individual has been approved by the Radiation Safety Officer and the requirements of these procedures are met.
- (2)Each user must demonstrate his ability to correctly and safely use the nuclear gauge and must be properly trained in its use.
- (3)At the termination of each field use, the nuclear gauge will be returned to its regular storage area.
- (4) In the event of physical damage to the gauge, a six (6) feet radius exclusion area will be maintained until the extent of the source damage (if any) is determined. If a vehicle is involved, it will be stopped and remain stopped until the extent of contamination hazard (if any) is determined.
- (5) Immediate telephone notification will be made to the Radiation Safety Officer, Region III of the United States Regulatory Commission, and the State of Illinois, Department of Public Health, Division of Radiological Health in the event of an accident or the loss or theft of a sealed source, whether accidental or due to theft.

In addition, leak testing will be conducted at intervals not to exceed six (6) months in duration and results will kept on file by the Radiation Safety Officer.

Personnell with be monitored for exposeure on a monthly basis with film badges provided by R. S. Landauer, Jr. & Co., Gleneood Science Park, Glenwood, Illinois 60425. Reports will be kept on file by the Radiation Safety Officer and personell will immediately notified should anything but minimal exposure result.

11. Waste Management

Upon final use of gauge, sources will be returned to manufacturer for disposal

CONTROL NO. 78193